

1990(11):M0150 FSTA
 TI Efficiency of antioxidants from natural sources in bakery products.
 AU Bassiouny, S. S.; Hassanien, F. R.; Abd-El-Razik Ali, F.; El-Kayati, M.
 CS Food Sci. Dep., Fac. of Agric., Zagazig Univ., Zagazig, Egypt
 SO Food Chemistry, (1990), 37 (4) 297-305, 15 ref.
 ISSN 0308-8146
 DT Journal
 LA English
 AB Soda cracker biscuits (recipe included) were prepared with the addition of BHA (at levels of 0.01, 0.02 or 0.03% by wt. of shortening) or with the addition of the following natural antioxidants: powdered leaves and flowering tops of marjoram (0.5 or 1% by wt. of **dough**), spearmint (0.5 or 1%), **peppermint** (0.5%), basil (0.5%) or a mixture of all 4 herbs (0.5 or 1%); purified ether extract of marjoram, spearmint, peppermint or basil (each at a level of 0.02% by wt. of shortening). The biscuits were baked, packaged in cellophane nitrocellulose film and stored at room temp. for ≤ 135 days. Samples were withdrawn at intervals and analysed for peroxide value. Biscuits containing no added antioxidant served as controls. Results indicated that the purified ether extracts of the herbs had an excellent antioxidant effect and that the powdered herbs also generally had an antioxidant effect, an exception being the mixture of all 4 herbs at the 1% level which had a pro-oxidant effect. It is suggested that the purified ether extracts at the 0.02% level could be used as replacements for conventional antioxidants in soda cracker biscuits; these extracts had no effect on organoleptic properties.

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FILE 'AGRICOLA, BIOSIS, BIOTECHNO, CABA, CAPLUS, DISSABS, FEDRIP, FOMAD,

FOREGE, FROSTI, FSTA, JICST-EPLUS, PASCAL, PROMT, MEDICONF, NTIS, NUTRACEUT, SCISEARCH, TOXCENTER' ENTERED AT 23:51:26 ON 26 MAR

2004

L1	6 S DOG AND DOUGH AND PEPPERMINT
L2	0 S DOG AND BICUIT AND PEPPERMINT
L3	11 S DOG AND BISCUIT AND PEPPERMINT
L4	43 S VANILLA AND DOG AND (DOUGH OR BISCUITS)

L5 43 DUP REM L4 (0 DUPLICATES REMOVED)
L6 659 S DOUGH AND (PEPPERMINT OR VANILLA OR FRUIT JUICE)
L7 11 S L6 AND PET FOOD
L8 11 DUP REM L7 (0 DUPLICATES REMOVED)
L9 48 S L6 AND (DOG OR PET)
L10 47 DUP REM L9 (1 DUPLICATE REMOVED)
L11 149 S DOUGH (10A) (FRUIT JUICE OR PEPPERMINT OR VANILLA)
L12 145 DUP REM L11 (4 DUPLICATES REMOVED)